

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|-----|-----|
| R | G1 | R | G1 | R | G1 | R | G1 | ... | ... |
| G2 | B | G2 | B | G2 | B | G2 | B | ... | ... |
| R | G1 | R | G1 | R | G1 | R | G1 | ... | |
| G2 | B | G2 | B | G2 | B | G2 | B | ... | |
| R | G1 | R | G1 | R | G1 | R | G1 | ... | |
| G2 | B | G2 | B | G2 | B | G2 | B | ... | |
| R | G1 | R | G1 | R | G1 | R | G1 | ... | |
| G2 | B | G2 | B | G2 | B | G2 | B | ... | |
| : | : | : | : | : | : | : | : | ... | |

Figure 1: Bayer Pattern

| | | | | |
|-------------|-------------|-------------|-------------|-------------|
| | | $R_{m-2,n}$ | | |
| | | $G_{m-1,n}$ | | |
| $R_{m,n-2}$ | $G_{m,n-1}$ | $R_{m,n}$ | $G_{m,n+1}$ | $R_{m,n+2}$ |
| | | $G_{m+1,n}$ | | |
| | | $R_{m+2,n}$ | | |

Figure 2

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| | | |
|---------------|-------------|--------------|
| $B_{m-1,n-1}$ | $G_{m-1,n}$ | $B_{m,n+1}$ |
| $G_{m,n-1}$ | $R_{m,n}$ | $G_{m,n+1}$ |
| $B_{m+1,n-1}$ | $G_{m+1,n}$ | $R_{m+,n+1}$ |

Figure 3

| | | |
|-------------|-------------|-------------|
| | $B_{m-1,n}$ | |
| $R_{m,n-1}$ | $G_{m,n}$ | $R_{m,n+1}$ |
| | $B_{m+1,n}$ | |

Figure 4